

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Currently Amended) A cooling device for a heat source, comprising:
 - (1) a heat sink including a coolant, said heat sink comprising:
 - (a) a first heat sink member with a **plurality of heat sources** ~~heat sourcee~~ arranged at an outer surface of said heat sink; and
 - (b) a second heat sink member provided with a plurality of holes, said coolant that cools said heat source being made to pass through said holes;
 - (2) a header configured to an opposite side to said first heat sink member about said second heat sink member as an axis;
 - (3) an inlet port whereby said coolant is made to flow into a first space surrounded by said header and said second heat sink member; and
 - (4) an outlet port whereby said coolant in a second space surrounded by said first heat sink member and second heat sink member is made to flow out.
3. (Withdrawn) The cooling device for a heat source according to claim 2, wherein an upright plate is provided on a downstream side of said header.
4. (Withdrawn) The cooling device for a heat source according to claim 2, wherein an upright plate provided on a downstream side of said header is made of arcuate shape such as to surround a hole.
5. (Withdrawn) The cooling device for a heat source according to claim 2, wherein an upright plate provided on a downstream side of said header is provided offset from a center of a hole.
6. (Withdrawn) The cooling device for a heat source according to claim 2, wherein a gap between an upright plate provided on a downstream side of said header and a wall face on a side of said header opposite said holes is eliminated.

7. (Withdrawn) The cooling device for a heat source according to claim 2, wherein a baffle plate is provided on an upstream side of said holes within said heat sink.
8. (Withdrawn) The cooling device for a heat source according to claim 6, wherein a baffle plate provided on an upstream side of said holes within said heat sink is made of an arcuate shape such as to surround a hole.
9. (Withdrawn) The cooling device for a heat source according to claim 6, wherein a gap between a baffle plate provided on an upstream side of said holes within said heat sink and said wall face on a side of said heat sink opposite said holes is eliminated.
10. (Withdrawn) The cooling device for a heat source according to claim 2, wherein an upright plate on a downstream side of holes of said header and a baffle plate on an upstream side of said holes within said heat sink are provided.
11. (Withdrawn) The cooling device for a heat source according to claim 9, wherein said upright plate and said baffle plate respectively are made of an arcuate shape such as to surround a hole.
12. (Withdrawn) The cooling device for a heat source according to claim 2, wherein a porous fluid resistance is arranged between an upstream end of said header and said holes.
13. (Withdrawn) The cooling device for a heat source according to claim 2, wherein a porous fluid resistance is arranged on an upstream side of said holes.
14. (Withdrawn) The cooling device for a heat source according to claim 2, wherein a plurality of headers are arranged on a side of holes arranged in said heat sink opposite that of said heat source.
15. (Withdrawn) The cooling device for a heat source according to claim 13, wherein a flow path is provided whereby said coolant flowing out from said holes is returned to another header from within said heat sink.

16. (Withdrawn) The cooling device for a heat source according to claim 2, wherein said cooling device is constructed divided into a part where said heat source is arranged, a part where said holes are arranged and a header part.

17. (Withdrawn) A cooling device for a heat source comprising:

a header wherein one or a plurality of holes are respectively provided in wall faces on both sides;

a heat sink outside wall where a heat source is arranged on an outer surface with gaps being provided on both sides of said header;

an inlet port whereby coolant flows into said header; and

an outlet port whereby said coolant within said heat sink flows out.

18. (New) A cooling device according to claim 2, wherein the plurality of holes comprises a first hole, a second hole and a third hole arranged in sequence along a line without intervening holes and wherein the distance between the first hole and the second hole is different than the distance between the second hole and the third hole.